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# THE INSECT PEST SURVEY BULLETIN

July P Haylor

A periodical review of entomological conditions throughout the United States issued on the first of each month from March to December, inclusive.

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BUREAU OF ENTOMOLOGY

UNITED STATES

DEPARTMENT OF AGRICULTURE

AND

THE STATE ENTOMOLOGICAL AGENCIES COOPERATING

### ITENOTOR BUSE STRAIGHT

Vol. 7

Tovember 1, 1927

10. 9

CUESTADDING EVICUOLOGICAL PERFURES IN THE JUNEOU DYNUMS FOR OCHOBER, 1927

A flight of the lesser migratory are schopper is reported from western fences and sovere damage has already been done to fall-soon wheat in certain localities.

The fall army-orm is doing considerable damas in certael Illinois, eastern Johnson, and Mansas.

The survey residently curvey of the Hiddle Atlantic States shows higher infestation than has provailed for several years. A general summary of the survey appears in this number. Flies are also reported as abundant in south-central Kansas.

Several new counties in Fernsylvania, Chio, Indiana, and Michigan have been found intested by the European corn borer in the course of the October scouting work.

The San Jose scale is not reported as unusually abundant from any pert of the eastern fruit belt, though indications equilibrate the season were that unusual infestations were to be expected.

In general, the codling-moth situation of the Eastern United States has been favorable; considerable wormy fruit, however, is being found in eastern emport applies.

The apple and thorn skeletonizer is reported for the first time from the State of Haine.

In the apple-growing section of West Virginia a very unusual outbreak of the apple marget occurred this year.

In the Beautity of paradiculorobersele is less surious that an unusually large Quantity of paradiculorobersele is letter used this year.

The desical bank bestle had been found one county east of our last record in New York State (Stephen Bounty). It simple bestle has been found north of Taskington, D. S., in Northomery Son to, Hardand. In infect that is the eastern part of North Carolina is decidedly nore intense than last year. In South Or oling the recorded smooth is practically one tips of counties in thur east than according to our last proof, afternian anstruct to thing between

Dillon and Barnwell. In Nichigan the recorded infestation is two counties farther north than previously recorded, extending into Wavne, Oakland, and McComb Counties in the southeastern part of the State.

The carrot weevil is doing considerable damage in southern Illinois.

As anticipated in our summer numbers of the bulletin, the cotton leaf worm did practically no damage in the northern fruit belt this year.

Throughout the pine stands of northern Idaho, present indications are that another epidemic of the mountain pine beetle is under way. A similar epidemic has been under way for the past fer years in the Bitter Root region of Montana.

The heaviest losses in the past 10 years from the ravages of the Jeffrey pine beetle in the area included in the California-Cregon control project are now occurring. The older epidemic in the Inyo National forest is now on the decline.

Several reports of damage to garden plants by the fire ant have been received from Mississippi.

### GENERAL FEEDERS

### WHITE GRUBS ( Phyllophaga app.)

- Illinois
- W. P. Flint (October 17): Severe injury by various species of white grubs to corn has been reported from many points in central and northern Illinois.
- Kansas
- J. W. McColloch (October 1): The county agent of Cheyenne County, reports that white grubs have destroyed a field of wheat. Counts showed that there were seven grubs to the square foot.

### STALK BORERS (Pyrausta son.)

Tisconsin

E. L. Chambers (September 15-Cotober 1): Lotus borers and smartmeed borers, <u>Pyrausta</u> spp., are very abundant in several localities in limited smartweed patches and lotus bels.

### CHAIN-SFOTTED GEONTIER (Cingilia catenaria Drury)

Maine

- C. R. Phipps (October 6): The chain-spotted geometer appeared in destructive numbers about August 15, defoliating blueberry, sweet fern; gray birch, and many other plants.
- Wisconcin
- E. L. Chambers (September 15-October 1): Thousands of moths were observed about the lights at Black River Falls on September 17. The surrounding bog land was stripped by larvae.

# LESSER HIGRATORY GRASSHOFFER (Melanoplus atlanis Riley)

Kansas

J. W McColloch (October 20): The lesser migratory grasshopper has caused some damage to full-som wheat in western Mansas. Flights have been reported from Great Bond and Dighton. (September 30): These grasshoppers are reported to be present by the hundreds of thousands in the fields of Palco. On September 29 a big flight of grasshoppers passed over Great Bind.

### CIRMAL AND FORAGE - OR OF INSECUS

### HISOELLANIOUS FULDERS

### FALL ARMYTORI (Legringers frugiveria S. & A.)

- Nebraska
- II. H. Smenk (September 25-October 25): During the first meet in engust an instance of the fell compound outstaillars attacking the ears of corn, and bullowing in the coboli the attacked ears, was found in Cass County.
- Illinois
- T. P. Flint (October 17): Tall ormyworm larvae have been recorted from several points in central Illinois, injurian corn and alfalf.

Kansas

'J. W. McColloch (October 8): Corn plants sent in from Liberal were badly injured by the fall armyworm. The leaves had been destroyed and the worms were working in the ears and stalks.

### THEAT

# HESSIAN FLY (Phytophaga destructor Say)

Widale Atlantic States

O. O. Hill and H. D. Smith (October 3): Hessian-fly survers made this summer show more fly infestation in the eastern wheat-growing area than there has been for some years past. Records of percentage of infestation were based on culms. The following summary shows the average infestation per county of the States under survey

	1927		1925	
State::	Number of counties	Infestation; per county, per cent.	C1 32	: Infestation : per county, ::per cent.
Penna : Del : Md : H.J : Va :: V.Va ::	21 3 10 1 11 2	: 33 : 7 : 21 : 4 :: 25 : 51	: 21 : 1 : 8 : -	: 1 : 0 : 2 : -

ansas

J. W. McColloch (October 20): A survey made during early October shows the fly abundant in the south-central part of the State, also one infestation in Thomas County.

# PLAINS FALSE WIREWORM (Eleodes opaca Say)

Kansas

J. W. McColloch (September 25): Theat is being destroyed before germination at Pierceville and Garden City.

#### CORE

# EUROFEAN CORN PORTR (Pyrousta nubilalis Hubn.)

Jeneral statement

Monthly Letter, Bureau of Entomology, No. 161, (September, 1927):
A summer shipment of 50,200 Expansion nubilalis chrysalids, parasitised by Phaeosenes planifrons Wesm. and 7,500 cocoons of Dioctes punctoria Roman was made on august 9 from Genoa, Italy, by the European parasite laboratory at Hyeres, Var. France. These parasites were collected by Dr. H. L. Parker at Bergamo, in Lombardy, Total shipments of Pyrausta parasites from Europe to this country for the last fiscal year were Eulimmeria crassifemur Thom., 47,340: Dioctes punctoria, 11,209; Masicera senilis Rond., 1,652; Microgaster tibialis Nees, 150,722; and Phaeogenes planifrons,

17,117. At the Arlington, loss, laboratory there were reared 42,704 Zenillia research 5 2.; 11,447 Electrocentrus abdominalis Fab.; 87 Dioctus presearch 55,175 arenteles so.; and 5,684 Masicena genilia. These too lists a make the total parasites sent parasites sent for use in the writere against the corn horer, 535,037. To collect the imported parasites 150 Taborers were employed for two weeks in the summer collecting period, extending from July 25 to august 10, 1925, in northern Italy, and 146 during the months of November and December, 1926, and January and February, 1927.

General statement

Corn-Borer Control Extension Service, No. 20 (October 13): Comparison of infestation in Michigan, Ohio, New York, and Pennsylvania, 1925, 1926, 1927.\*

Total larvae per 100 stalks

	1925	1925	1927
Michigan		10.73	35.50 4.02
Tem Yor I	2.15	7.00 5.50	10.78 17.72
average for whole area	2.11	5.02	12.98

<sup>\*</sup> Figures for survey not complete September 19, 1927.

Fennsylavnia

Corn-Borer Control Extension Service, Fes. 19-21 (Cotober 1-22): Secuting for borers in new territory is still being carried on under the direction of L. H. Forthley. The following counties have been added this season: Larerre, Horroe, and Wayne

Chio

Corn-Borer Control Extension Service, Nee. 17-21 (September 17-October 22): The following counties have been maked this season: Clark, Frirfield, Champaign, Ferry, and Belmont.

Indiana

Corn-Borer Control Extensio: Service, Nos. 17-21 (september 17-October 22): The following counties have been added this season: Eliment, Heatington, Norshall, St. Joseph, Jay. Randolph, and Websch.

Hichigan

Corn-Borer Control Enturesion Service, Reports Foe. 19-21 (October 1-22): The following soundied mayor bour added this educant Alcohalpent, Barmy, Berram, Ingar, Tugot, Influence, Midland, Freque Itle, St. Joseph, Cheberth, and Amenic.

· voit

Corn-Torer outral interplain Remains, Planet In. 1 (Cotober 1):
Scouts in Carala have discovered in injectation in the Consit miningered, Rin miles forth of the original outh of St. Thomas,
Cutario, suid Prof. L. S. Hel have or the Leminion revormment at
Cotoba. Infectations have also been found on St. Toren Island

and Manitoulin Island in northern Lake Huron and at several points in wuebec. Nova Scotia has been scouted but no borers found there.

### CORM HAR WORK (Moliothis obsoleta Fab.)

- North Carolina
- 0. W. Brannon (October 1): This insect was reported by the county agent of Oraven Jounty as severely injuring soy beans.
- Miscongin
- E. L. Thambers (September 15-October 1): Less than 20 per cent of the sweet corn. southern counties is infested with the corn car worm.
- Hebraska
- II. H. Swenk (September 25-Catober 25): Complaints of injury by the third brood of the corn ear worm continued to be received in about the normal numbers during the latter part of September and the first week in October.

### CORN ROCT WORM (Diabrotica longicornis Say)

Hew York

E. P. Felt (Cotober 26): Corn root worm adults were numerous September 15 in a corn field at Cuylerwille, Livingston County, being attracted to ears which had been injured by raccoons.

### COMPLAS of al.

# FOUR-SPOIR D BEAN TERVIL (Lylabris Quadrimaculatus Fab.)

Mississippi

R. W. Harned (October 5): Serious injury to field peas by this species was reported from Caledonia October 6.

# COMPEA CURCULIO (Cholecdormus seneus Boh.)

Masissippi

R. W. Harned (October 6): Spricus injury to field peas was also noticed at Caledonia October 6.

### GRASS

# A WEBWCRM (Crambus sp.)

California

Monthly News Letter, Los angeles County Horticultural Commission. Vol. 9, No. 10 (Cotober 15): The small dark brown insect larvae found feeding on gross roots and recently reported from many parts of Los angeles County as caucing considerable injury to lawns represent a species of sod webcorms or crambid, according to determinations received by H. A. Armitage, Entomologist, Los angeles County Horticultural Commissioner's office, from eastern authorities on this group. These insects are recorded as being of more or less common occurrence throughout the United States, but only occasionally causing serious injury to their hosts. They

live in silker two s just below the surface of the soil, feeding on the roots and foliage of grasses and cereals and in some of the larger cereals up into the stems.

# GREEL JUNE BERALE. (Sctinis mitide L.)

North Carolina

- R. W. Leiby (October 14): Larrae of the green June beatle are causing considerable domage to grass layers and golf courses. The damage appears somewhat more serious than last year.
- C. H. Brannon (October 20): Ir. E. W. Bawer, Gastonia, reports that his home lawn has been seriously demanded by June bug larvae. Ir. A. R. Horrow reports the June bugs have caused serious injury to golf greens in the vicinity of Elatersville.

#### FRUIT IISECTS

### HISCELLANDOUS FLADURS

# SAN JOSE SCALE (Aspidiotus permiciosus Compt.)

Hiddle Atlantic States I Mostal (October 1): Inspection of export apples from the Middle Atlantic States during the month of September, at the Port of Mid Mork, reveals considerable inflatation of San Jose Scale. Out of approximately forty carloads or part carloads inspections, this insect was present in nineteen instances, infestation ranging from 1/2 of 1 per cent to 40 per cent of the apples in inspection samples.

Gorgia

O. I. Shapp (October 20): The San Jose scale increased rapidly during the summer, and by the latter part of August the infestation was very heavy. Recent observations have revealed the fact that many of the insects have died since summer, probably as a result of pred cirus enemies or parasites. The same thing occurred in 1925. I see still wendering if the general use of lubricating-oil emulsions for scale control during recent years has not allowed the predactous enemies and parasites of the San Jose scale to become more numerous than was the case when constic scale sprays were used.

Sinio

I. J. Rendenhall (Cetober 1): The San Jost scale in south estern Ohio is held Swite roll in cheen, crospt in the exceptional outpreaks.

-ndiana

5. A. Portor (October 91): the Jord-Route infautations this suson have been about average in int neity, neither unusually light nor unusually heavy.

Tisconsin

I. I. Chambers (September 15-Cataber 1): A curvey for the Jan Jose scale has been made. There were 25 orchards in Racine

County, 75 orchards in the State, and 15 city parks found to be infested. Apples, plums, ornamentals, and shrubs were attacked.

# JAPANESE BEETLE (Povillin japonica Norm.)

Ter Jersey

Monthly Letter, Bureau of Entomology, Fo. 151 (September, 1927): Cwing to the fact that the activities of the adult Japanese beetle have censed for the present season, it was possible on October 1 to lift the quarantine regulations covering form products. Fo beetles have been found in any farm products inspected in the last week of September. Owing to the unusually cool nights, the for bestles remaining at a number of points within the infested area have shown a tendency to crawl down into flower blossoms for protection, dohliss being favored in this respect. Since a considerable Quantity of out flowers are still being shipped from the regulated area to sutside points, it has been considered impracticable to permit the unrestricted movement of these articles. As a result, the Quarantine restrictions requiring inspection and certification of cut flowers are being kept in effect until Cotober 15, the maximum limit of the quarantine on farm moducts and cut flowers. Three large shipments of percente material mere received at the Laboratory in September. One of these, a consignment of Tiphia from India, was taken from the boot at Boston and rushed to Riverton by messenger, thus saving considerable time which otherwise would have been consumed between these two points.

### MEDITERRANEAN FRUIT FLY (Ceratitis capitata Wiod.)

Fhilippines

Honthly Letter, Fureau of Entomology, No. 151 (September, 1927): H. F. Millard and Arthur J. Mason, of the Honolulu station, report that records of infestation of fruits by the Mediterranean fruit fly indicate that the fly was less abundant about Honolulu during 1927 than during any of the previous 8 years.

### 

# CODINE MOTE (Carrocapse pomonella I.)

Hiddle Atlantic States E. Kostal (Catabor 4): The codding moth has been common, in one case 20 per cent of the applies in the inspection sample for expert being infested. These applies of the variaties Ben Davis, Cano, Jorathan, and Delicious, were produced in the States of Delagare, Maryland, Virginia, and Sest Virginia.

Indians.

3. A. Porton (Cotober 28): This season the control of the codling noth has been much less dishipoult that has been the case in recent years. During the cool restler which provided during nort of the month of August book of the rooms went into hibomation, for or them paralting. As a result, there were for paper from which noths could eneme during late august and the first helf of

September, when conditions were very favorable to the codling moth, and the number of late worms was reduced to a very low point

Tisconsin ·

E. L. Chambers (September 15-October 1): From 5 to 20 per cent of the apples are infested with the codling moth over the entire State

### APPLE AND THORN SKELETONIZER (Hemerophile parions Clerck)

Jaine

C. R. Phipps (Gatober 5): This is the first report of this insect in Maine although similar injury was noted on Sutts Island last summer. Foliage turned brown in Jaly and August in unsprayed and lightly sprayed orchards.

Tew York

E. P. Felt (October 26): Apple and thorn skeletonizer adults have been flying in numbers the last two weeks in various localities in the central and southern part of the State, areas where there has been considerable foliage injury the past season.

# APPLE MAGGCT (Rharolatis bomonella Walsh)

ost Virginia F. I. Brooks (October 17): I desire to report that for the first time within my memory we are having at French Oreck a serious outbreak of the apple magget. It seems to be confining its attacks, so far as I have observed, to Grimes Golden. Around 75 per cent of the fruits of that variety are infested. Previously I have found the species in West Virginia only at elevations around 3,000 feet above sea level. This occurrence, at about 1,600 feet altitude, is unusual for this region.

lisconsin

E. L. Chambers (September 15-October 1): The railroad worm is very abundant in some LaCrosse and Trempedleau County orchards.

# SCURFY SCALE (Chionaspis furfura Fitch)

Ohio

E. W. Mendenhall (October 1): I find that apple trees and even apple stock in the nurseries in southmestern Ohio are badly infested with the scurfy scale, giving a white appearance.

#### PEAR

# PEAR SLUG (Priocampoides limacina Retz.)

Chio

I. T. Mendenhall (October 6): I find outbreaks of the pear slugs on year stock in some of the nurseries in Hiami Jounty.

### FEACH

# FEACH BORER (Auguria entition Say)

Hoorgia

C. I. Snapp (October 20 More paradichloroben zeno is being used in Georgia this your than for several years. This is largely due to

a greater borer infestation. For several years the Georgia peach growers have not been giving so much attention to this pest as they should, and as a result the infestation has materially increased and much damage has resulted to the trees.

Ohio

E. W. Mendenhall (October 3): The work of the peach tree borer is about as severe as usual.

Illinois

W. P. Flint (October 17): Adult peach tree borers continued to emerge up to October 5, at Carbondale, in southern Illinois. In some cases pecan growers in this section had applied paradichloroben zene early in September. These treatments would probably not prevent injury by the larvae hatching from the eggs of late-emerging moths.

### ORIENTAL FRUIT MOTH (Laspeyresia molesta Busck)

Georgia

O. I. Snapp (October 21): This insect has spread to many new localities in Georgia during the 1927 season, although it is still not a pest of major importance in sections where late peaches and apples are not grown. This insect is now in hibernation here.

### SMARTWEED CATERPILLAR (Acronycta oblinita A. & S.)

Illinois

W. P. Flint (October 17): This caterpillar has been found in moderate numbers on the foliage of peach. In some cases as much as 25 per cent of the trees in certain orchards were being badly defoliated by this pest.

### TARNISHED PLANT BUG (Lygus pratensis L.)

Indiana

B. A. Porter (October 22): The tarnished plant bug is very abundant on almost all plants. We are particularly interested in this species as a peach pest, and its abundance this fall threatens serious damage to peaches next spring.

#### LOGAMBERRY

# RASPBERRY FRUIT WORM (Byturus unicolor Say)

Washington

J. J. Shearer (October 24): On Vashon Island, Fuget Sound, as the growers of loganberries delivered their crops to the canneries, near Tacoma, they were rejected on the grounds that the berries were wormy.

#### FECAN

# PECAN SHUCKTORM (Laspeyresia caryana Fitch)

Mississippi R. W. Harned (October 27): On October 3, inspector R. P. Colmer,

Loss Point, reported in regard to the pecan shuckworm as follows:
"The shuckworms are the worst this year that I have seen for quite a while. They are causing quite a bit of premature opening of the shucks and then the pecan itself is discolored. I think the reason for it is that last year after the storm so many of the growers did not attempt to clean up under the trees and the shucks with the larvae in them were not disturbed until spring." Another rather serious complaint in regard to the pecan shuckworm was received on October 8 from Okolona.

### CITRUS

### RED SPIDER (Tetranychus telarius I.)

Clifornia

Monthly News Letter, Los Engeles County Horticultural Commission, Vol. 9, No. 10 (October 15): Serious "red spider" injury has been noted recently in citrus orchards in eastern Los Angeles County according to Deputy Horticultural Commissioner, K. L. Wolff. Generally speaking, damage has been found to be most severe in orchards which have not been recently irrigated. While the number of spiders was found to be nearly as great on some of the more recently irrigated properties, the amount of injury from their attacks was noticeably less. In many orchards where control measures have not been applied soon enough, the drying and dropping of foliage have been severe.

#### TRUCK-CROP INSECTS

# MISCELLANEOUS FEEDERS

BLACK CUTWORN (Agrotis ypsilon Rott.)

iississippi

R. W. Harned (October 27): Two rather serious complaints have been received recently in regard to the greasy cutworm. Specimens of this species, identified by S. E. Crumb of the Bureau of Entomology, were received from Ocean Springs on October 7. The correspondent from Ocean Springs stated that they had apparently destroyed his entire patch of turnips in one night. Specimens tentatively identified as this species by J. II. Langston were received from Grace on October 22. The correspondent stated that the worms had destroyed about 2 acres of alfalfa out of a 25-acre field.

#### FOTATO

# COLORADO FOTATO BEETLE (Lentinotarsa decembincata Say)

lisconsin

E. L. Chambers (September 15-Jotober 1): The northern counties have been surveyed for the Colorado poteto beetle with negative results.

### POTATO LEAFHOPPER (Empoasca fabae Harr.)

Wisconsin

E. L. Chambers (September 15-October 1): The potato leafhopper has infested from 25 to 50 per cent of the potatoes in northern counties. Dahlias are also attacked by it.

### CABBAGE

### CABBAGE WEBWORH (Hellula undalis Fab.)

Mississippi

R. W. Harned (October 27): The imported cabbage webworm has been very abundant in Mississippi during the past few weeks. Cabbage and turnips are the principal crops that have been injured. Specimens accompanied by statements in regard to serious damage that they were causing have been recently received from Jackson, Kemper, Monroe, and Lowndes Counties.

# CABBAGE APHID (Brevicoryne brassicae L.)

Mississippi

R. W. Harned (October 10): Aphids were reported on cabbage at Hamilton October 10.

### BLISTER BEFTLES (Meloidae)

Forth Carolina

C. H. Brannon (October 1): Blister beetles have been reported to be severely damaging collards near Turkey, Sampon County.

### STRAWBERRY

# STRAWBERRY LEAF ROLLER (Encylis comptona Frochl.)

vebraska

II. H. Swenk (September 25-October 25): Strawberry leaf rollers were reported injuring the foliage of strawberry plants in southeastern Lancaster County during the second week in October.

Kansas

J. W. McColloch (October 10): A heavy infestation of this insect is reported from North Topeka.

# MENICAL BEAT BEETLE (Epilachna corrupta luls.)

beetle

Hew York

M. F. Howard (September 22): The Mexican bean/has been reported from Steuben Jounty.

Marvland

E. N. Oory (October 1): a single beetle has been found by Mr. Sanders in pine needles at Bee Laboratory grounds, at Somerset.

orth Carolina O. H. Braunon (October 1): This pest has caused tremendous datage all over the infested areas of the State this year. It is spreading east rapidly and has been found in Columbus and up through Martin and Helifax Counties. (October 20): Mr. W. C.

· Nonveil of Tankell reports — his community attracted by a veritable plague of Mexican beam but the sand that all a rich orang have been destroyed there he control was surlegue.

South Darolina

I. P. Frank (Sentember 20): This insect has been manned from the following counties: Chesterfield, Markova, Da lighton, Dillon, Lee, Sunter, Barnvell, and Grangeburg.

Chio

E. W. Mendemball (October 12): The Memban bean trette has been reported as very injurious in Harrison County during the summer and fall.

Michigan

N. F. Howard (September 13): The Hemican bean buetle has been reported from the following counties: Ockland, Wayne, and McComb

### CUCUL BER

# STRIFED OUGUNDER BELTTLE (Diebrotica witteta Fab.)

Wisconsin

E. L. Chambers (September 19-Sctober 1): The striped runs ber beetle has been observed on cucumbers in the southwestern with of the State, but no noticeable d mage.

### SAUASH

# IELON MCRM (Diaghania hvolingta D. )

Lississippi

K. L. Cockerham (October 19): This insect was found damping late squash at Biloxi during Soptember.

# CHROI

# PARSLEY STALK GEEVIL (Listronotus latiusculus Boh.)

Illinois

W. P. Flint (October 17): The results of a runeat survey in the infested territory mithin a PO-mile r line of Past St. Louis showed over half the carrot ratches infested with this corrot reevil, the infestation ranging from 10 to 100 per cont with an average of about 40 per cont.

#### TURNIF

# TURNIE AFRIL (Rhopalo sirlum Desulon Assicus Lavia)

Mississippi

H. I. Cocherlan (October 19): loing conditionally frame to turning and appeard.

# CAPPOT BETTLE (Firmes Mibour D. ..

Mansas J. W. McCelloch (September 25): Carrot beatles are consine serious injury to turnlps at Latin.

### STRIPED FLEA BEETLE (Phillotreta vitteta Fab.)

Mississippi

K. L. Cockerham (October 19): The striped flea beetle Gdil\_scrious damage to turnips in Biloxi during September and October.

### SWEET FOTATO

### SEMITROPICAL ARMYWORM (Prodenia eridenia Cram.)

Mississippi

R. W. Harned (October 13): Serious injury to one corner of a sweet-potato field near Vicksburg was reported on October 13, by the semitropical armyworm, <u>Kylomyges eridania</u>.

### SOUTHERN FIELD-CROP INSECTS

### COTTON

BOLL WEEVIL (Anthonomis grandis Boh.)
PINK BOLL WORM (Pectirophona gossypiella Saund.)

Mexico

W. I. Jackson, American Consul (October 10): Due to the great amount of damage by the boll weevil and pink boll worm, the 1927 cotton crop of the Laguna region, which in June was placed at 90,000 bales, is now estimated at not more than 75,000 bales. A certain amount of damage is always expected in the Laguna from the pink boll worm, but the boll weevil as a rule does but little damage. This year, however, both are exceedingly bad and the damage being wrought by them will amount to at least 30 per cent of the crop.

# BOLL WOR! (Heliothis obsoleta Fab.)

Morth Carolina

C. H. Brannon (October 27): The county agent of Halifax County reports under date of October 21. "In the field where they were found there was an average of at least two bolls per stalk that were ruined, and the bolls that this worm ruined were the ones we had saved from the weevil by dusting."

Maxico

A. W. Morrill (October 2): Following a thorough clean-up of infested wild cotton plants in the Yagui Valley as well as the only field of cultivated cotton in the valley in 1925, no infestation of the 1927 crop was discovered until late in September in fields kept under close surveillance during the season. No damage possible to the 1927 crop.

# COTTON LEAF WORM (alabama argillacea Hubn.)

Indiana

B. A. Porter (October 22): Fruit in this section has been practically uninjured by the moth of this spacies. One green reported that only a few moths of the cotton leaf worm were present

shout the middle of September. This is very different from the situation in 1926, when the moths appeared in Suptember by millions and caused serious damage.

Michigan

E. A. McDaniel (October 12): The first specimen of Alabama angillacea in Michigan, so far as has come to our notice, was discovered yesterday. This creature has not yet a peared in numbers, only a single specimen having been observed at East Lansing.

### FOREST AND SHADE-TRUE INSECTS

### MISCELLANEOUS FEEDERS

### AFHIIDAE

Montana

J. C. Evenden (October 8): Throughout the city of Libby the elms, imported ashes, and boxelders are being scricusly attacked by aphids (species unknown). This attack is so heavy is to in, a jure seriously the appearance of the trees and to cause the death of some few individuals.

# WHITE-MARKED TUSSOCK MOTH (Memorocompo leucostiema S. & A.)

Nebraska

II. H. Smenk (September 25-Cotober 25): The white-marked tussock moth continued to be conspicuous during the period covered by this report.

# COTTOUWCOD DAGGER (Leronvote populi Riley)

Hebraska

II. H. Swenk (September 25-October 25): Puring the latter part of September and the first ten days of October the cotton-good dagger moth, <u>Anoteln populi</u>, appeared in conspicuous numbers on the shade trees of Lincoln.

# PIFE IEAF SCALE (Chiendenie oinifolice Fitch)

Nebraska

II. H. Stenk (September 25-October 25): Complaints of injury by the pine leaf scale on sprace and pine continued to be received during the period here reported.

# LUIT

# WOOLT ADDIT ATHTE (Procidilus tesselectus Fitch)

New York

I. P. Felt (October 25): Millions of the grain area leaving from adult masses and being down the branches and that tranks and covering the ground for a couple of flat around the bast, in the case of an alder some JO feet high in Hilling lack. Several other near-by also trees were not inserted (1. I. Lorsey).

### FIGURE

### A RAD SPIDIR (Forstetronychus uniunguis Jac.)

· Malssachusetts

2. I. Bourne (October 13): Several hundred amborvatae trees constituting the "Hame" at Oskir Fill, Hasaachusetts Gift Scouta! Headharters, Taltham, are heavily infested by the spruce mite. This was determined by Prof. Garman as <u>Paratetranychus uniunguis</u> Jac.

### PONTLOTE

# DOVELDED BUG (Leptocoris trivittatus Soy)

Aansas

J. U. McCollock (Cotober 20): At this geason of the year the borelder bugs are proving a serious enhapence in many homes over the State.

### CATALPA

### CATALFA APHIK (Opratomin catalnee Boisd.)

Ohio

E. U. Mondenhall (Cotober 7): I find an outbreck of the catalya sphing moth in Miani County. They come much later this year.

Illinois

I. F. Wrint (Sctober 17): The catalpa splant has been a little less namerous than during the last two or three seasons. Heny formers have reported part or complete defoliation.

Indiana

R. A. Forter (October 22): The outsloss sphirx is rather scarce this season, and very little defoliction has been observed.

### BILL

# But Mill Bullion (Adoratello, patha. chorack)

Chio

T. T. Henderhall (Outober 5): The elighers heatle has done considerable damage to the about these in Hemilton and ticknity. The eatly and property or one not wasping up with them smalling as they chould.

### FIR

# OUGLAS-ITE BIJILE (Denincotoms pseudotsage Homi.)

ontona.

J. J. Evenden (October 8): Throughout the mestern plat of the State the Douglas for Double is dustroping a intier elarning volume of Bouglas for annually. This loss occurs in croups of tress softened the annual for accounted to a. .

# 

# JUFIFER SOLGE (pignis complete )

Chic

1. W. Pendenhall (Outofor Aug. 1) a function of the its multiple for the property of the state of the state

### LOCHET

# UIONORY DOWNER (CHARLES rebenies Feb. 4.)

Rebraska

II. If Sment (Continue 25-Cotober 15): a Conyone County course, purdent reported that the lapt through those and research in such that among in a large grove of blank homet trees, not meanly YC periodal, that during the past carrier 25 per oath of the trees alread infortation, and about 100 of them were filled.

### 11 17 17

# JOHNOH MAFIL SCALE (Principle into the bility Tother.)

Idaho

J. J. Brenden (Optober 3): Burden the most point the cottony angle scale has increased in such munitary as to become a servicus port on the chade trees throughout the outer of Social Hillers. Flore for comparity control have been started for the season of 1,20.

# HUNT-SITERID MARIE TIGHT (MIRROR OF HIRMAN, TOB.)

Tehr halo

I. H. Thenk (Semmerber 95-Ontober 35): a correspondent from Saga Samaly reports early in Catabar than the according trood of the accentational armic commands stylingual for matter place Chita at a most formal. The first to make that bean injuly us eculian in the season.

#### 71.173

# POURSEIN FIND DEBITE (T. Appointing of the De- halle)

Idaho

J. G. Exemper (Sete or E): Throughout to the in about of morthern I. and the horse due to the form the interpolation of the formation. This condition is decided which below the formation of the formation. This condition is decided as control of the first of the fir

Montana

J. C. Evenden (October 8): For the past new years a serious epidemic of the mountain pine beetle has existed in the pine stand; (lodgepole pine and yellow pine) of the East Fork drainage of the Bitter Root River. From 50 to 70 per cent of the timber on the areas over which this epidemic has appead has been destroyed. In the past year or two this infectation has appead into the Big'Mclu Basin and the Missoula Mational Forest.

### JEFFREY-PIWE BASFLE (Dendroctonus jeffreyi Hopk.)

California and Oregon

Monthly Letter, Bureau of Entomology, No. 161 (September, 1927):

J. M. Miller reports that an infestation of the Jeffrey-pine beetl of several years as a large windfall occurred in this region, several million feet of timber being blown down. This intestation developed in the blow-downs, and attacked green timber, but soon lost its momentum after the dying timber from the windfalls was no longer available. Surveys of the California—Cregon control project area, conducted by F. F. Keen Curing the recent summer, show the heaviest losses of the last 10 years. In 1927 more than 350,000,000 feet of timber were killed. Private owners in this region are very much disturbed, and it is probable that a great deal of control work will be carried on during the coming winter and spring.

# PIME LEAF SCALE (Chionaspis pinifoliae Fitch)

Ohio

I. W. Henderhall (October 25): The pine leaf scale is quite abundant on several of the pines on some of the properties in Troy.

# PHE BARM LOUSE (Chermes piniconticis Empl)

Ohio

E. W. Hendenhall (October 19): Fine bark aphids are infesting the white pines in Dincinnati to some extent.

Hebraska

M. H. Swenk (September 25-October 25): In Richardson County on ornamental white-pine tree in a farmer's yard cas found to be heavily infested with the white-pine bark louse in the latter part of September.

### POPLAR

# A LEATH CFHIR (Idiocerus scutum Germor)

California

H. J. Laria (Scholar J): Damage induce general to Reviewly pools in Reverly Hills. Injury accompanied by smutting of brooms. Injury chiefly semilated to prompt trees.

### TULIP

### TULIP SCALT (Turnevella liriodeauri Gnel.)

New York

I. P. Felt (October 25): Twigs badly infested with the tulip scale were received the middle of the month from Millbrook, Butchess County.

### GREENHOUSE AND DENAMEREAL PLANTS

### JHRISATI HANDA

CHRYSANTEHRUM GALL MIDGE (Diarthronomyin hypognea long)

Chic

E. W. Henderichl (October 12): The distribution musualdge is doing demage to chrysanthemum in a greenhouse in Delaware.

### IRI

### IRIS BURST (Ik oronoc tun unu ta Grote)

Wisconsin

E. L. Chambers (September 15-October 1): Infestation of iris by the irls borer is very severe in some parts of the State in nursery plantings, being as high as 50 per cent.

### JAPANISE CHERRY

# WHITE FEACH SCALE (aulacosvic vertagon Terg.)

Hen York

E. F. Felt (Cotober 25): The West Indi n yearh scale persists on Jupanese cherry in the vicinity of New York City to such an extent that park authorities have experienced difficulty in controlling it by ordainst spray applications.

### III-0

# LILAC LEAF HIT ( (Fracilities of resella Feb.)

Wer Tork

E. P. Telt (Cotober 1): Tiled less mines lurve continue to feed abon the leaves of tiles, ash, and rivet in Mouhl that, though but few could be found the last of the modil (F.I. or or).

### 11.010LLa

# MATTOIL COLL (Mediconnium committee Thro.)

Terr Term

E. F. Felt (for there ): The mornalis, on the kind of the remains of the mornalist transfer to broads of Themse we ester, the scales being thickly contained of the smaller broaches, or street being that does (). E. Loncery.

### PRIT SPECIOL

### A TORTRICID MOTH (Endothenia hebesana Walker)

Haryland

E. N. Cory (September 9): Slight damage to pentstemon by Endothenia hebesana Walker has been reported from College Pork.

### PERIVITEE

### SOFT SCALE (Coccus hesperidum L.)

Ohio

E. W. Menderhall (Cotober 3): I find a scale, <u>Cocous hesperidual</u> infesting vinca vines on plantations near Dayton, but not doing much damage.

#### REDBUD

### A.GELECHIID MOIH (Gelechia serotinella Busck)

Chio

E. W. Merdenhall (September 27): I find this insectivery bad on the leaves of the redbid or Judas trees at Dayton. It was dostroying the leaves.

### INSECTS ATTACHIEG HAD AND

### DONISTIC ANTHLES

# FIMAS (<u>Otempos de lus sinle</u> Curtis, (<u>Otempos pholis</u> felis Bouche)

Wisconsin

E. L. Chambers (September 15-Jotober 1): Many complaints of cat and dog fleas have come in during the past two weeks, of nuisance in duellings.

Hebraska

II. H. Swen'r (September 25-October 25): Complaints of infestation with <u>Otenocembalus samis</u> continued to be received during the latter part of September and the first ten days of October.

General statement

F. J. Bishopp (Catober ): Reports of household and factory 11festations of fless continued to come throughout the month. The come musually from Fernsylvania, Maryland, Virginia, and Chio. One has received from Commesticut.

# PUSS CALARFILLAR (Megalonge opercularis S. & a.)

Morth Carolina O. H. Brunnon (October 1): This insect stung several people in videly separated sections of Forsyth County near Winston-Splen. An elderly lady was stung and the physician who attended her said that she nearly died as she had a weak heart. All the were stung

suffered severe pain and had to be on mated at for modilef. These exterpillars are facility on permits and formy following these who were stand were micking fruit. In. 3. J. P.M. or may a cont. Foreyth County, east in specimens and first a ported the accivities of the pest.

### 3.2 ...

# HORN FLY (F. matobia input me L.,

Temas

The horn fly was rarely noticedly, at Umiles haring the state, and there were generally less than 100 on any animal October 1-16, at Brackettville the same conditions provided. At Bal Pio this were a new more flies: some cattle bal as many as 100. On October 1-16, as 1,000 to 2,500 at substation and Samora, anout the rank communitions provided at Orona, ad Theffield on October 10 and all as at Samora. There were more alies at Fore Stablem, come of the moving as many as 3,000 to 3,500, at alpine and Harfa on October 21 and 22 flies were appropriately animals to a most alternation of all cattle had swarms of the flies 5,100 to 10,000. The horns of all cattle are discolored at the hage by over a set in fine and about the head."

# AH OH TUNKLE (House to be a land and Devilo

Pexas

I. J. Bishopp (Cotobia): J. J. I. I. I. I. I. I. Cottle in a some of different localities in southwartened but a steering limit there as a great variation in the paragraph of limits at the bearing the make in the animals, while at Twindo many ambs much in the fifth instance some had notured and left the hosts. In a colorable conditions who noted at points restand: Marit, fotobe, i, an examination of 52 mature dairy cattle showed an even of the public or it is not had appeared in the subdet of the man of the public or it is not incoming number in one animal was 17. All areas the life is a furth instance and found that no grube had presented the factor. First streeter, October, of, the out-the main in the substance that is, if it is the following the back.

#### 103

# SHATT DOWNERS (Rolling to the Large Total)

Fornsylvania.

F. C. Bishoph (Defends on the continuous section) and the continuous from Characteristic file of the first of the first one of the first one of the Eorth can prove

### PCULTRY

#### CHICKEN LICE

Maryland and Virginia F. C. Bishopp (October 25): The normal fell reduction in the numbers of chicken lice is taking place. Several flocks have been observed with moderate to heavy infestations of body lice. Shaft lice appear to be next in number, with head, fluff, and wing lice comparatively scarce.

### PIGEON HIPFOBOSCID (Lynchia maura Bigot)

Jashington, D.O. F. C. Bishopp (Sctober 31): Specimens of the pigeon hippoboscid have been received from the District of Columbia.

### IMSECES ITTUSTIVE HOUSES

### and Frences

### SEPTIMES.

Kansas

J. W. McColloch (Cotober 8): Termites have Milled five Cherry trees in a yard at Minsley.

### PHARACH'S AMI (Monomortum phoreonis L.)

Hississippi

M. R. Smith (October 27): Frof. J. II. Bual of the Department of Botany of the Mistissippi A. & M. College recently received a package of plants from Utica, on thich were many workers and three Queens of Phernoh's ant. This shows how easily this species is spread from town to town through shipments of plants, groceries and other forms of commerce.

# ARGENTINE AFT (Iridography humilis Fayr )

Mississippi

M. R. Smith (Geteber 27): Inspector H. D. Gray, Natchez, recently sent to this office opecimens of the argentine and which he took from a ship, the Florence, which had decade at Matchez. He states that the ants were quite plential on board the saip. It plies between Fort Adams and Matchez, Miss. and Vidalia, La., and perhaps other places.

# FIRE AUT (Selectorsis reminata Pab.)

Mississippi

II. R. Smith (October 2): The fire ant centinues to be the source of much complaint. The ants are complained of as getting into food, especially grouse, meats, butter, etc., stinging children, exting holds into clothing, giralize small situate trees and . . . toble plants, and doing other durage lish will rank it second to the argenture ant as a past in 1813 St to. Inspector inasley

· Himes of Yadoo City reports that the fire cat the found dectroving many of the pures of the cetter leaf worm in the field. Ir. P. R. Harrison of the Bureau of Entemplosy and to the office a young citrus than, the roots and base of the trunk of thich had as ament been giralaw by worders of the fure ant. The unto had not of npletaly mirdled the true but had eaten the bank from the roots and trunks in small priches unich appeared on the trees as small pits or peck-shaped depressions. During the latter art of July, IL. J. F. Fried, county agent, Paschrouna, shut to us some exact outs which he stated were being seriously injured by the fire ant. In examination of the plants should that the anterhad burnowed longitudinally in the atoms of the plants and 'we also art a the characteristics teristic pock-chared holes cut of the burd on the steman room of the plants. A resident of the curves it a. . II College coiled our attention to injury to the bods of clar in man graden by fire ants. This inputy consisted of small to fairly prominent boles gramed in the mode at the buse. Some of the work gloved small wantlike abnormalities that more intermally accept by the cuts also. The priter withesped the sats ording of a ogen of the repole, and enaving holes into the biss of the objected. The enterior elso reported as feeding on broom and within in the house.

# FLACT HOUSE AND (Monomorian reminar Bank)

C. H. Brunnon (Cotober 1): This ent is remost at by C. C. Dala, county work, to be inflation from the in Lamborton.

E. W. Hundarhall (Cotober 13): The block this, Homemorron minimum have been a most mansance in garders and looks the most same.

# AT ATT (FINALTH OUT ALS SA)

II. R. Smith (October 27): This was tied in inforting so mean onjoining houses at Granada that it are for a the irm toin that it is the argentine out. The oute we estive the four round in some of the houses, but are torse from thring to have fell. In one house this with written a minel, to found the offerency owner in this box. Sworth harden good to, win took within, Ture observed in Mil presumber. However in this custion is we noticed the fits infultion to an Illustra in the State contact the ed , band dublahan, in ind a comparent, candy, a brile har. Out of doors, the same selfs he found is also made to achieve the structure of the structur

# ACLIVED BOLINGS (Endeumentalis America)

J. T. Diakl (Ontwoor 17): The many that the limit foots of maturm, flight hornour and the content.

North Carolina

Chio

liesistippi

California (Inyo County) They swarm into dwellings, school houses, cometimes completely covering the electrical fixtures and other objects suspended from the cellings, also crawling into beds, cracks, etc. The numbers have been considerably larger than usual this year. Many people are stung at this season of the year.

# OIGARETTE REETLE (Lasioderma serricorne Fab.)

Illimois

W. P. Flint (October 17): The cigarette beetle has been reported as damaging upholstered furniture in the homes and in stores. This beetle is becoming one of our most commonly reported household pests.

Kansas

- J. W. McColloch (October 17): The cigarette beetle is giving a lot of trouble in a furniture store at Abilene.
- H. B. Hungerford (September 30): The digarette beetle has been reported attacking upholstered furniture at Clathe.

# POUDER POST BEETLES (Lyctus spp.)

Illinois

W. P. Flint (October 17): Several cases of injury by the larvae of a beetle to telephone plugs have been reported from east-central Illinois. This injury is caused by the eating off of the lead tongue inside the fuse plug, and having the same effect as blowing the plug.

Kansas

J. W. McColloch (October 5): Severe injury, especially to lath, is reported in a house in Johnson County.

# STORED-GRAIN EUSEOTS .

Webraska

II. F. Swenk (Sentember 25-October 25): Stored-grain pests have been less troublesome than usual during the present fall, though a few complaints of infectations of stored wheat and shelled corn have been received from various parts of the State.

# DARK MEAL MORM (Tenebrio obscurus Fab.)

Kansas

J. W. McColloch (October 11): The dark meal worm was found abundant in an ear of sorn at St. Francis.

# RICE LIEVIL (Colondro orrza L.)

North Carolina I. A. Rack (October 14): From letters received it would appear that the rice veevil is more abundant then usual in the wheat cusp of restern North Galelina.